

Title (en)

Plastic retainer for fluid coupling.

Title (de)

Kunststoffhalter für Flüssigkeitskupplung.

Title (fr)

Pièce de retenue en plastique pour accouplement à fluide.

Publication

EP 0537906 A1 19930421 (EN)

Application

EP 92308448 A 19920917

Priority

US 77706091 A 19911016

Abstract (en)

A plastic retainer (26) has a pair of axially spaced cylindrical rings (28,30). Retainer arms (32) for retaining an upset portion (33) of a tube (22) within a housing bore extend from said rear ring (30), and a plurality of webs (46) connect the front and rear cylindrical rings (28,30) of the retainer (26). When a tube (22) is initially inserted into the housing bore, it contacts an inner periphery of the arms (32). The retainer (26) then moves axially forwardly within the bore for a small distance until the forward ring (28) abuts a seal package (36) within the housing (24). Further movement of the retainer (26) is then prevented, and the upset portion (33) of the tube (22) causes the arms (32) to flex radially outwardly at a flex point in the rear ring (30). The upset portion (33) may then move axially beyond the arms (32) into a fully connected position within the housing (24). <IMAGE>

IPC 1-7

F16L 37/084

IPC 8 full level

F16L 37/12 (2006.01); **F16L 37/098** (2006.01)

CPC (source: EP US)

F16L 37/0987 (2013.01 - EP US); **Y10S 285/921** (2013.01 - EP US); **Y10S 285/924** (2013.01 - EP US); **Y10T 29/5367** (2015.01 - EP US)

Citation (search report)

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- [A] WO 8909361 A1 19891005 - ITT AUTOMOTIVE INC [US]
- [A] GB 2216213 A 19891004 - USUI KOKUSAI SANGYO KK [JP]

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WO2006048070A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL PT SE

DOCDB simple family (publication)

US 5161832 A 19921110; BR 9105641 A 19930427; CA 2078174 A1 19930417; CA 2078174 C 20000111; DE 69208416 D1 19960328; DE 69208416 T2 19960704; EP 0537906 A1 19930421; EP 0537906 B1 19960221; ES 2086081 T3 19960616; JP H05280680 A 19931026; MX 9205835 A 19930601

DOCDB simple family (application)

US 77706091 A 19911016; BR 9105641 A 19911230; CA 2078174 A 19920914; DE 69208416 T 19920917; EP 92308448 A 19920917; ES 92308448 T 19920917; JP 27702792 A 19921015; MX 9205835 A 19921009